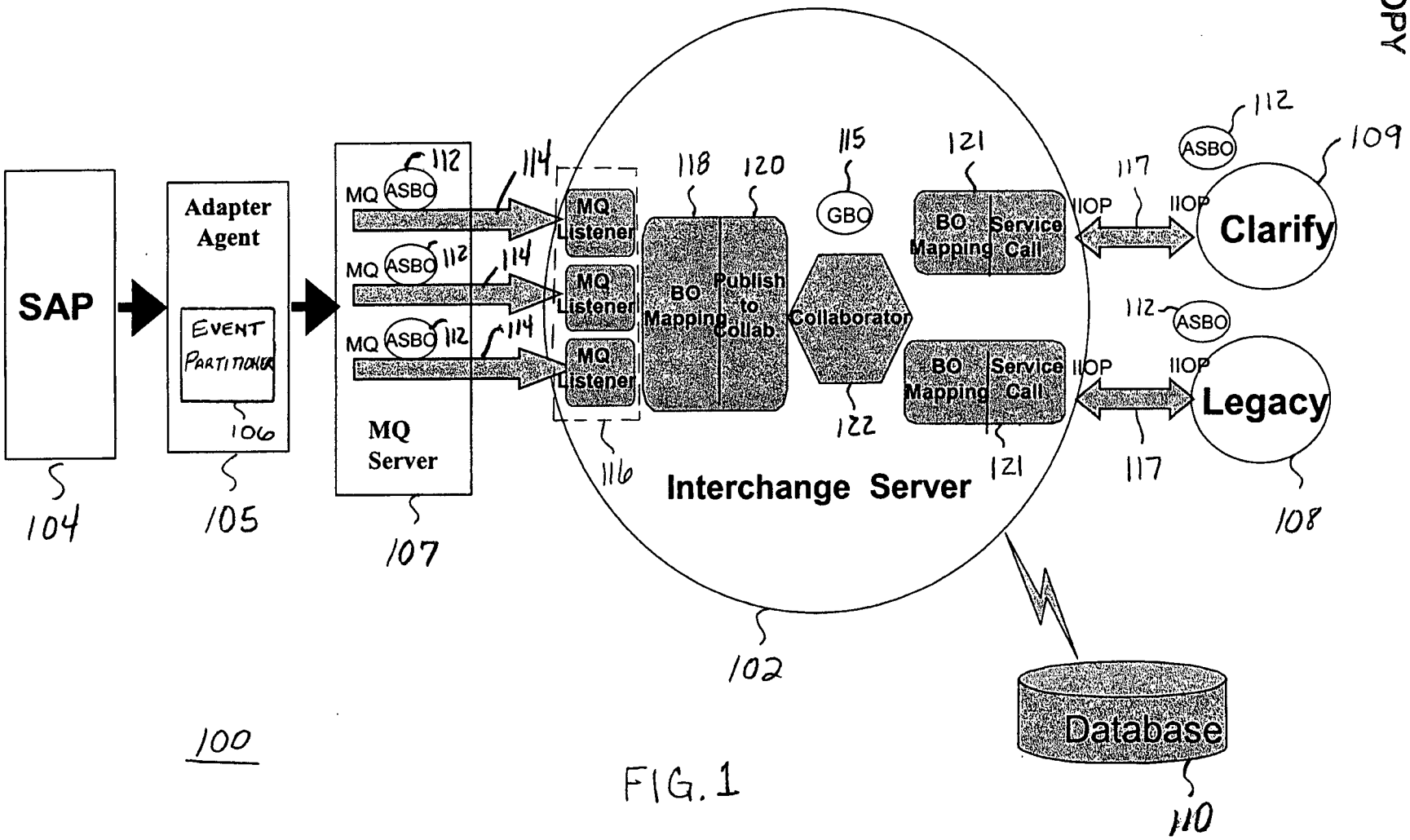
BEST AVAILABLE COPY



100

FIG. 1

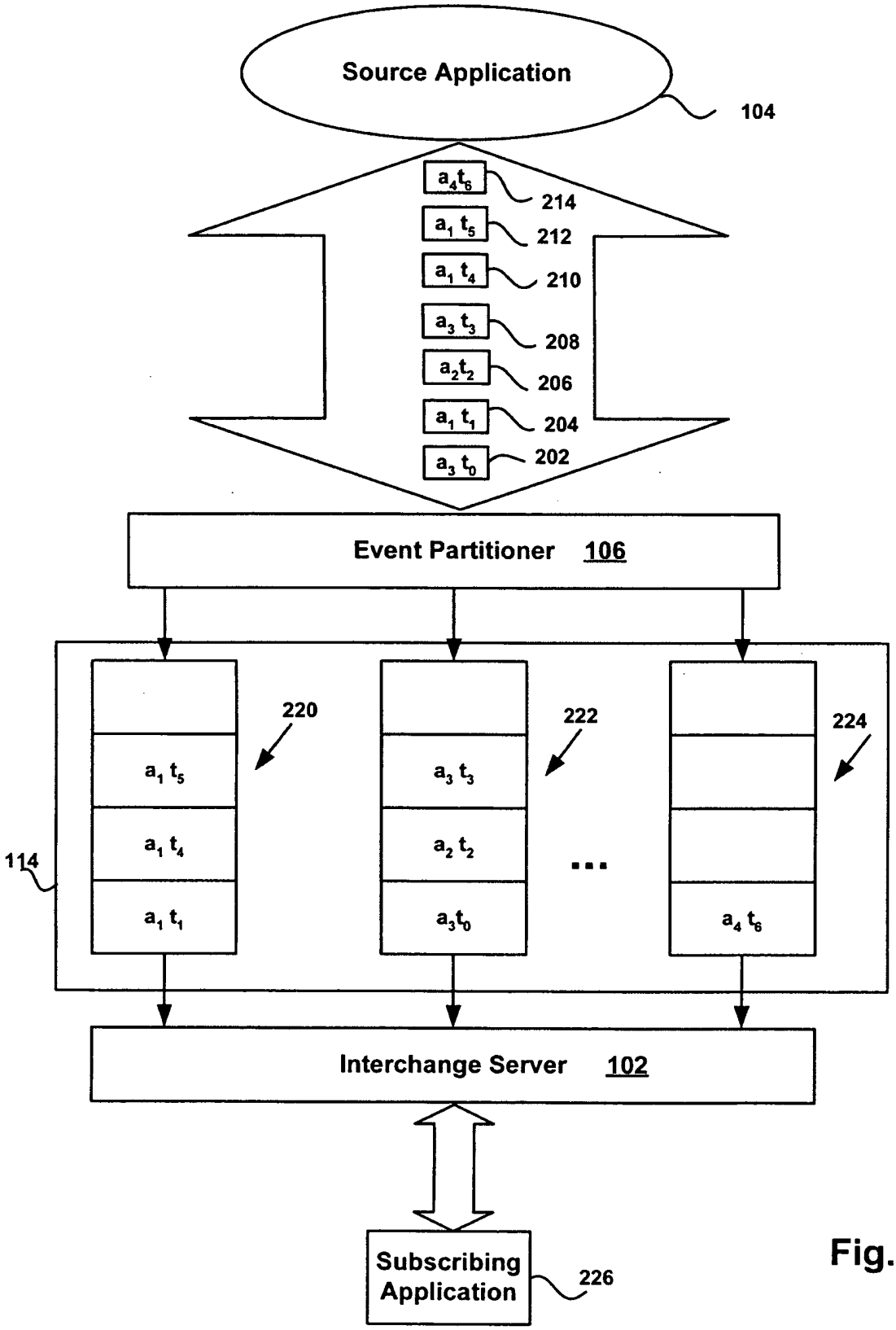
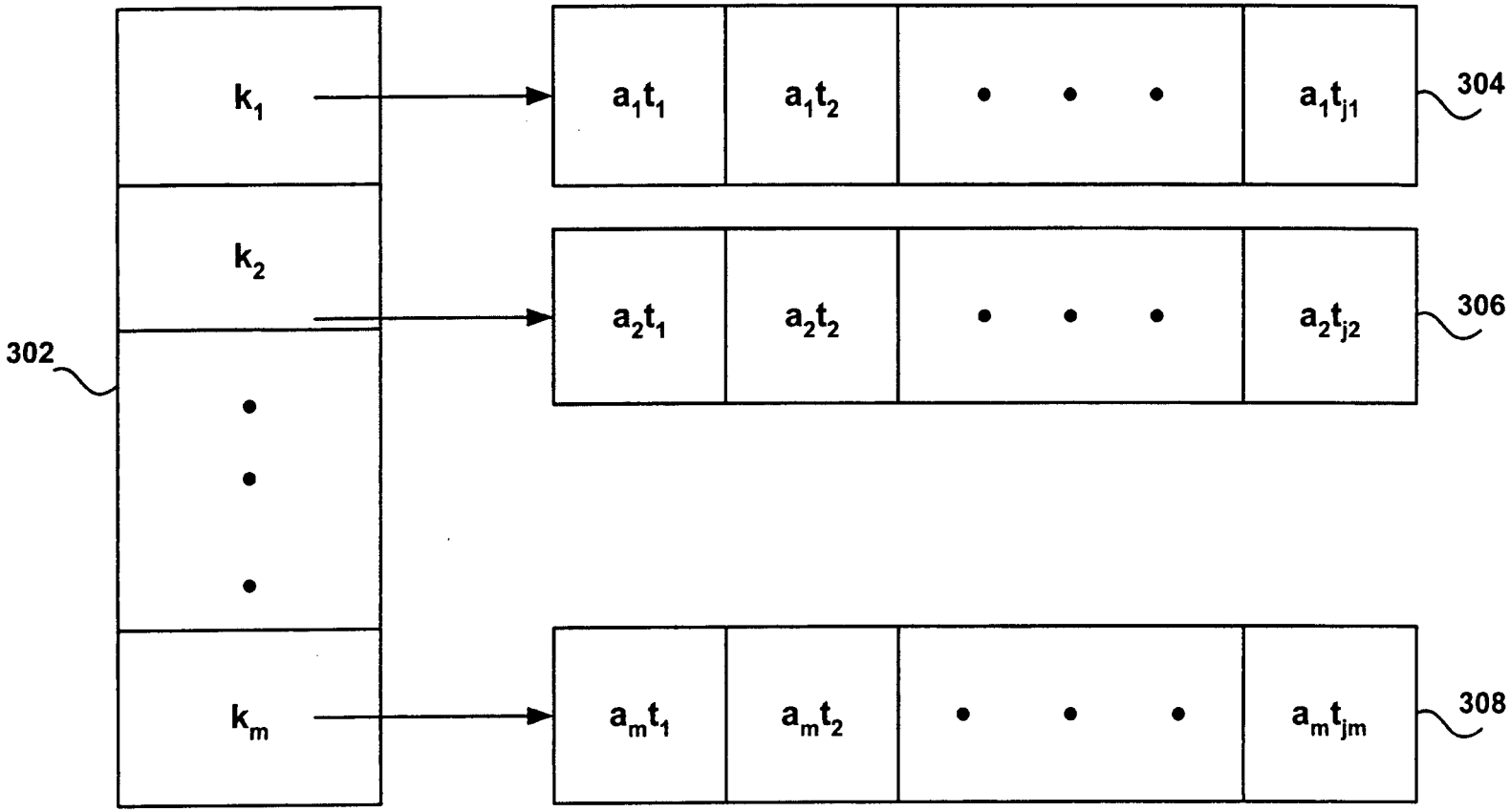

Source Application
104
$a_4 t_6$
214
$a_1 t_5$
212
$a_1 t_4$
210
$a_3 t_3$
208
$a_2 t_2$
206
$a_1 t_1$
204
$a_3 t_0$
202
Event Partitioner 106
220
222
224
114
$a_1 t_5$
$a_1 t_4$
$a_1 t_1$
$a_3 t_3$
$a_2 t_2$
$a_3 t_0$
$a_4 t_6$
Interchange Server 102
Subscribing Application
226

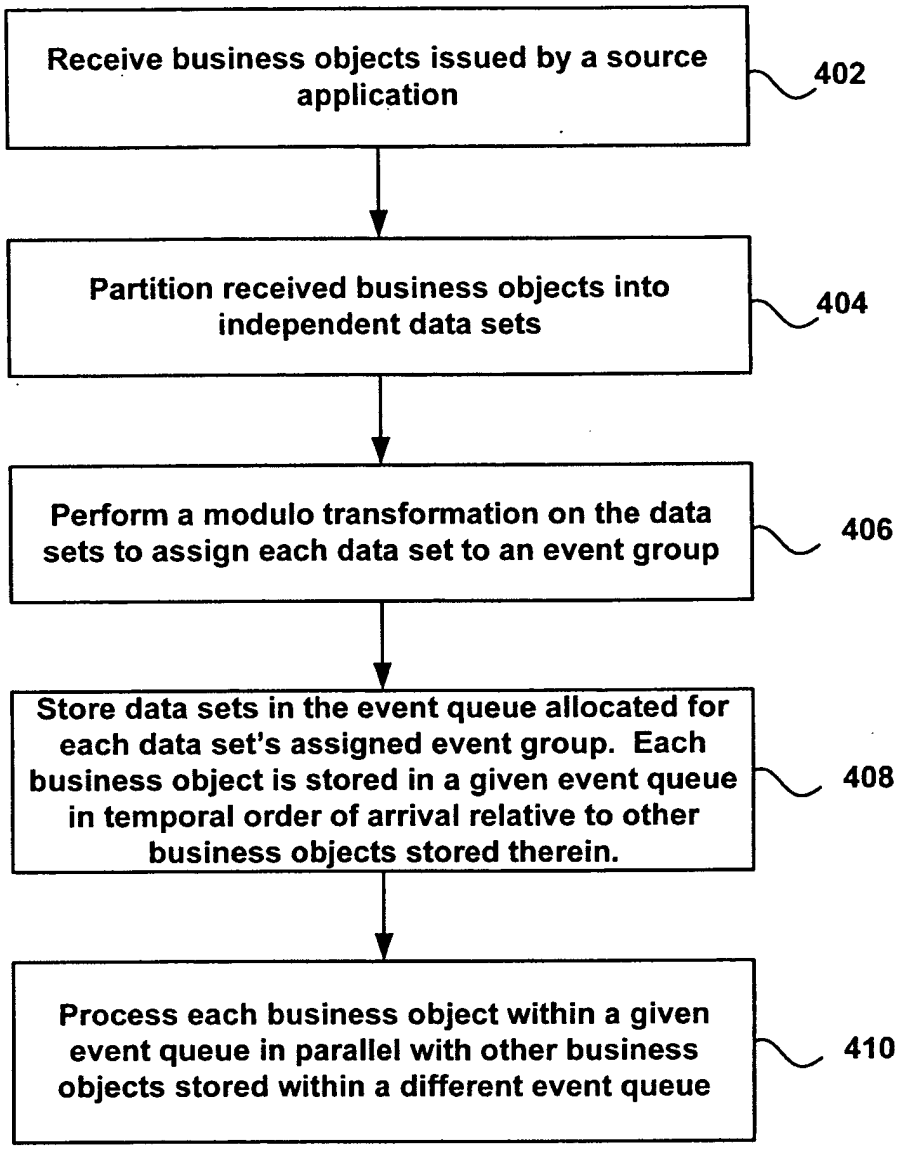
Fig. 2

Fig. 3


k_1
k_2
k_m
302
a_1t_1
a_1t_2
a_1t_{j1}
304
a_2t_1
a_2t_2
a_2t_{j2}
306
a_mt_1
a_mt_2
a_mt_{jm}
308

300

Fig. 4


Receive business objects issued by a source application
402
Partition received business objects into independent data sets
404
Perform a modulo transformation on the data sets to assign each data set to an event group
406
Store data sets in the event queue allocated for each data set's assigned event group. Each business object is stored in a given event queue in temporal order of arrival relative to other business objects stored therein.
408
Process each business object within a given event queue in parallel with other business objects stored within a different event queue
410

400